

1475. ACHILLEA MILLEFOLIUM.**Yarrow.**

From France. Received through Mr. W. T. Swingle, December, 1898. (2 packages.)

"Millefeuille."

"A perennial composite with simple stems, twice pinnately parted leaves, and white or pink flat-topped flower clusters. Common in old fields and meadows throughout the eastern United States and extending westward through the prairie region. In this country it is usually considered a weed; but in Europe, and especially in England, is held to be a very valuable addition to sheep pastures." *Jared G. Smith.*

"Perennial of long duration, very early, good pasture for sheep alone or mixed in compositions of grasses; can bear drought well even on dry lands. Suitable for hardy turf on meager and dry lands. Sown in spring or at the end of the summer and in autumn." (*Vilmorin.*)

The seed weighs 23 to 27 pounds per bushel; $4\frac{1}{2}$ to $5\frac{1}{2}$ pounds is required per acre.

1476. SINAPIS ALBA.**White mustard.**

From France. Received through Mr. W. T. Swingle, December, 1898. (20 packages.)

"Moutarde blanche."

"Annual, very good forage for cows at the end of summer and in autumn; to be sown for forage in August or September, upon the stubble of a cereal after lightly working the ground; for seed harvesting sow in April. For forage, to be eaten green, alone or in mixture with other plants. It may be sown successively from spring to the end of summer. The seed is oleaginous and serves frequently for the manufacture of the spice of this name, but its most important use is as a medicine for mankind." (*Vilmorin.*)

The seed weighs 50 to 54 pounds per bushel; 11 to 13 pounds per acre is sown for forage, $4\frac{1}{2}$ to $5\frac{1}{2}$ pounds for seed.

1477. BRASSICA NIGRA.**Black mustard.**

From France. Received through Mr. W. T. Swingle, December, 1898. (32 packages.)

"Moutarde noire d'Alsace" (black Alsatian mustard). Large-seeded.

"Annual plant of rapid growth, cultivated more for the sake of its oil and medical properties than for forage. The seed serves for the manufacture of mustard used for seasoning and for the preparation of ground mustard, the basis of sinapisms, but it may also be used as a very quickly developing forage plant.

"Two principal varieties are distinguished in commerce—the Sicilian black mustard, flowering and seeding very early, and the Alsace black mustard, with larger, broader, and more yellowish leaves." (*Vilmorin.*)

The seed weighs 50 to 54 pounds per bushel; $5\frac{1}{2}$ to 7 pounds per acre is required for forage, $2\frac{3}{4}$ pounds per acre for seed production.

1478. BRASSICA NIGRA.**Black mustard.**

From France. Received through Mr. W. T. Swingle, December, 1898. (32 packages.)

"Moutarde noire de Sicile" (black Sicilian mustard).

Small-seeded. (See No. 1477.)

1479. BRASSICA NAPUS.**Summer rape.**

From France. Received through Mr. W. T. Swingle, December, 1898. (9 packages.)

"Navette d'été ou quarantaine."

Variety "*sylvestris*."

"Used for the same purpose as the winter rape, less productive, but earlier, and preferred for autumn seeding and the production of green spring forage in localities where the winters are mild. For spring and summer seeding, with the purpose of obtaining the product during the same year, this summer rape should be employed to the exclusion of all others." (*Vilmorin.*)